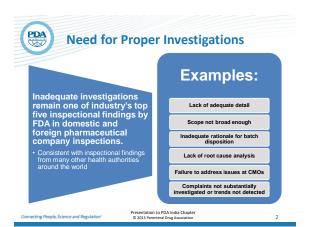


2013 PDA/FDA Improving Investigations Workshop – Output of Meeting

The ICH Q10 Workshop Series: The Practical Approach to Sustainable Compliance September 18-19, 2013 - Washington, DC

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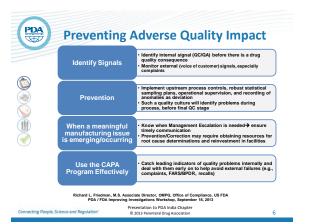
Investigations: FDA Expectations and Findings

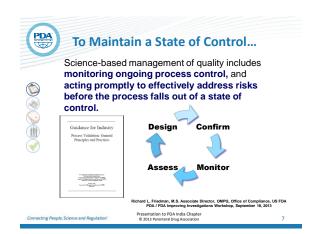


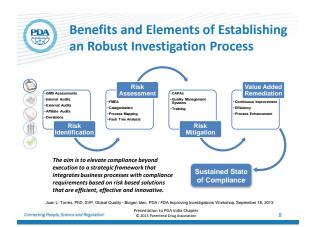
- ...Clearly the responsibility for maintaining quality rests squarely with the manufacturers themselves...the widespread and successful adoption of six sigma and related quality management techniques in other manufacturing sectors would imply that reliable, highquality manufacturing is also attainable in the pharmaceutical sector.
- We must ask ourselves, in an area where the stakes are so high, why is this not being achieved?
 - Dr. Janet Woodcock, Commentary in May-June 2012 edition of PDA Journal
 Richard L. Friedman, M.S. Associate Director, OMPO, Office of Compliance, US FDA
 PDA / FDA Improving Investigations Workshop, September 18, 2013

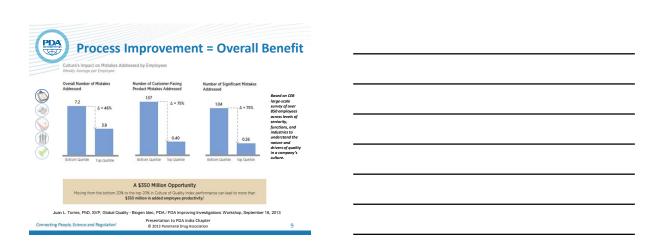
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Cost of Quality: models and the benefits · Reducing the cost of poor quality is one of the best ways to increase a company's profit Provides management overview of quality Aligns quality and goals · Helps prioritize problems and provides a means to measure process improvements Morale Los controllable quality costs · Promotes effective use of resources · Provides incentives for robust Quality Presentation to PDA India Chapter © 2013 Parenteral Drug Association





Standardized Root Cause Analysis (SRCA) Process Improves CAPAs



SRCA Process avoids "tunnel vision" by:

- Emphasizing that most events have multiple Causal Factors and Root Causes
 Requiring evaluation of Causal Factors and Root
- Requiring evaluation of Causal Factors and Roo Causes
- · Requiring confirmation of Causal Factors
- Evaluating each Causal Factor for Root Cause(s)
- Ensuring CAPAs are implemented for each identified Root Cause

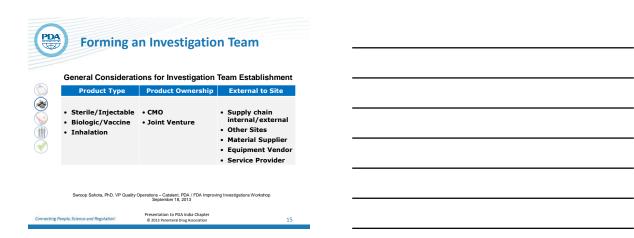
Martin VanTrieste, R.Ph. SVP Quality, Amgen, Inc. PDA / FDA Improving Investigations Workshop September 18, 2013

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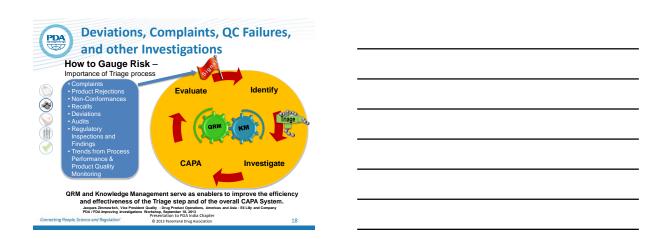


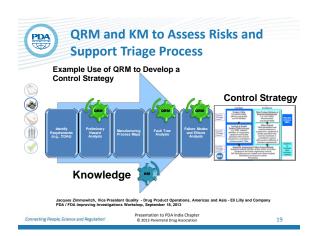


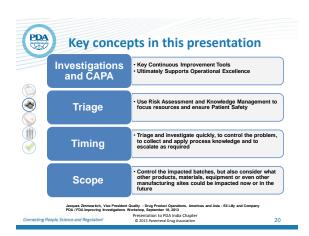


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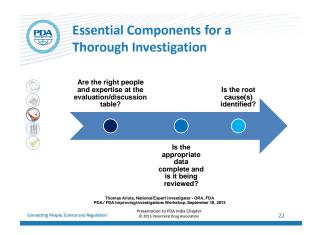
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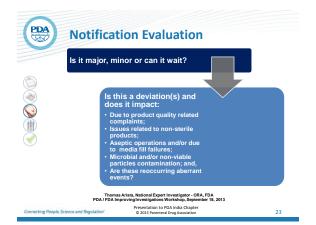




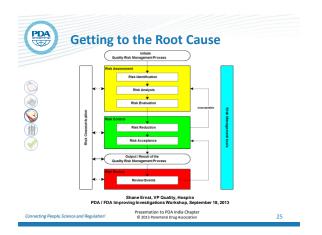


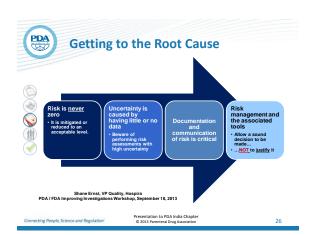


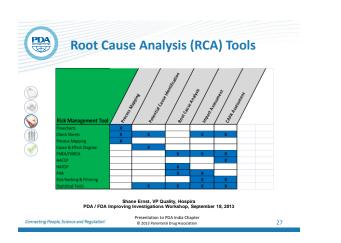


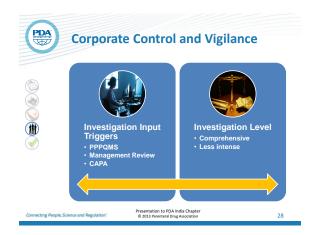




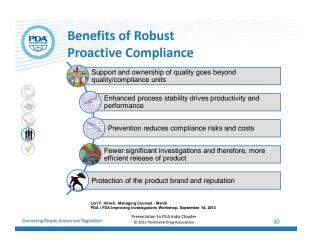














Quality Lessons



Deviations occur/mistakes happen!

Key is to have systems in place that:

Provide for strict accountability/checks and balances

Investigate root causes

Assure complete and systemic CAPAs

Check effectiveness

Apply "Lessons Learned" across product lines, sites and throughout the organization

Lori F. Hirsch, Managing Counsel - Merck PDA / FDA Improving Investigations Workshop, September 18, 2013

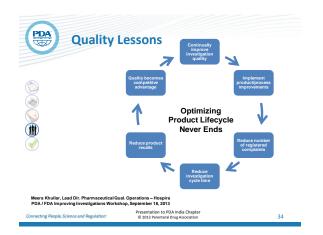
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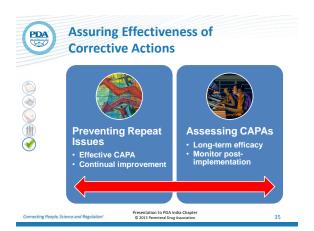
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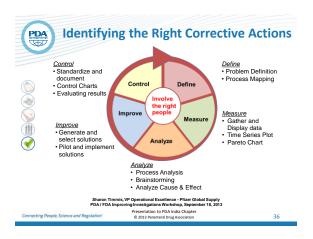
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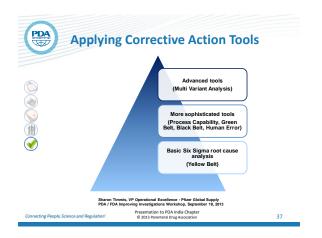




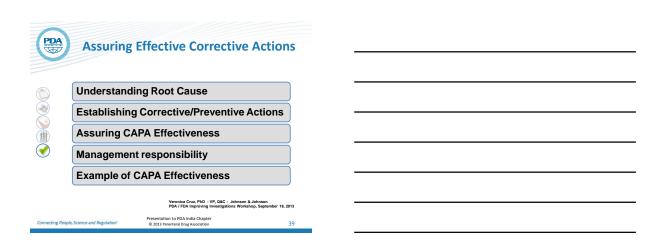




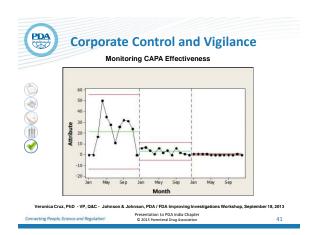




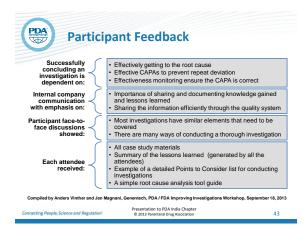
PD	Apply	ing Correct	ive Action	Tools - Exa	mple
	Task Required	Who does it?	By when?	Frequency?	Comments
	Investigations & Event Control charts updated weekly	QA-rep	2nd Nov	Weekly	Use I-MR chart.
	If Outliers on Control chart or Investigations/ Events take >28d, these must be investigated (in real- time) at the board	Board Facilitator to nominate investigator	Investigation to be completed within 1 week	As required	Outliers are Special Causes where the data point is > 3 std-devs away from the average.
*	Shifts, Trends and Sawtooth patterns in the Control Charts to be discussed / investigation initiated at the monthly Cl meeting	Board Facilitator and Cl team	Investigation to be completed within 1 week	As required	Shift is 8 points in a row above or below the average. Trend is 6 points in a row increasing or decreasing. Saw tooth is 14 points in a row alternating up and down.
	Set up monthly CI meetings	Board Facilitator	2nd Nov	Monthly	This is a key element to ensure gains are maintained and that ongoing CI of the system occurs.
Connectin		DA / FDA Improving Investig Preser		per 18, 2013 er	38













Acknowledgements

- Josh Eaton (PDA S&RA)
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- Glenn Wright (Eli Lilly, PDA BOD)

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